

FIG. 1

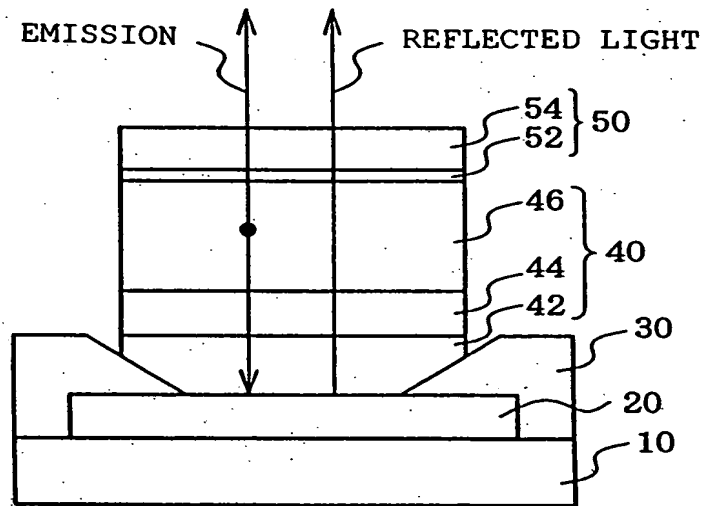


FIG. 2

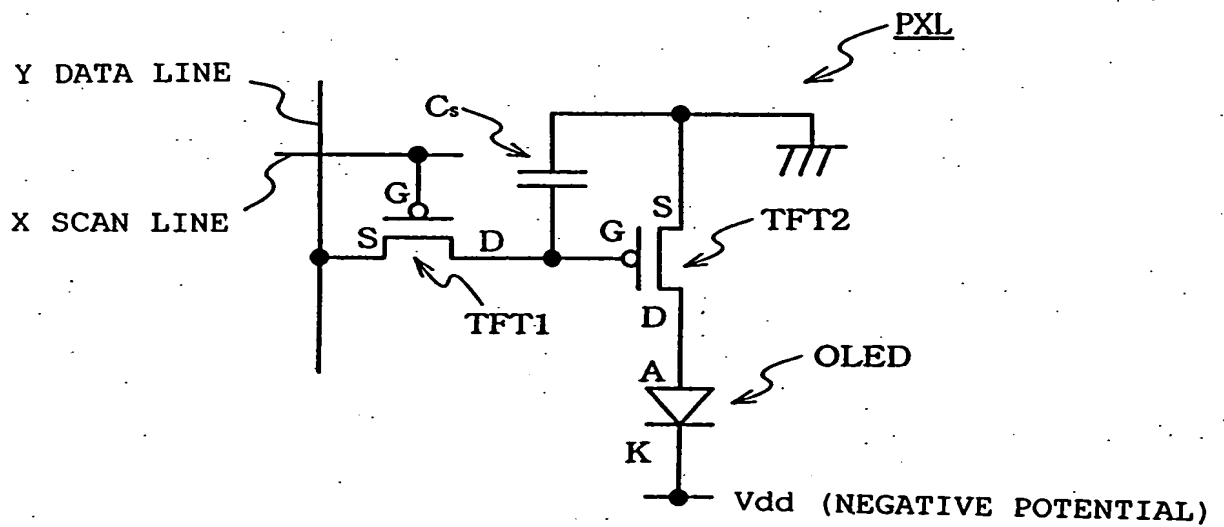


FIG. 3

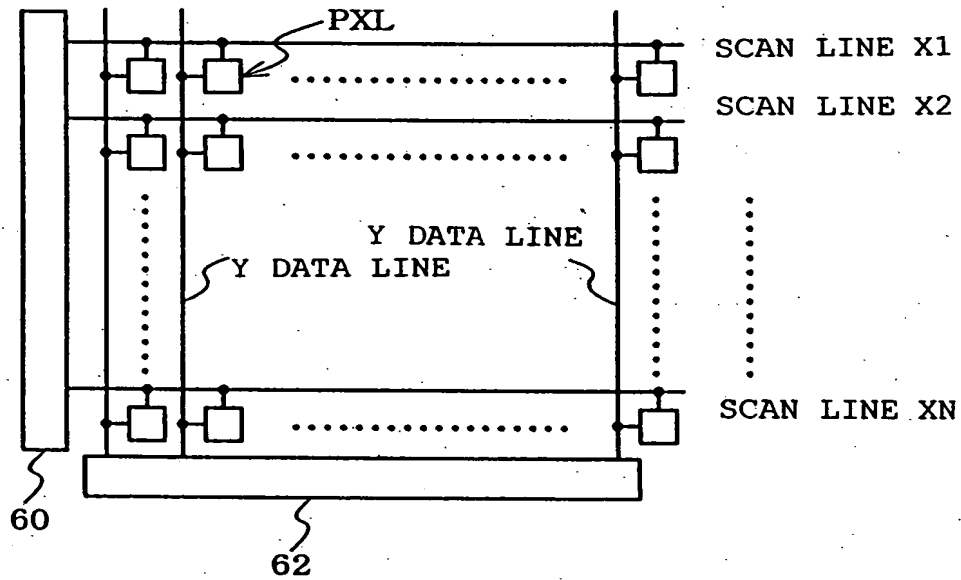


FIG. 4

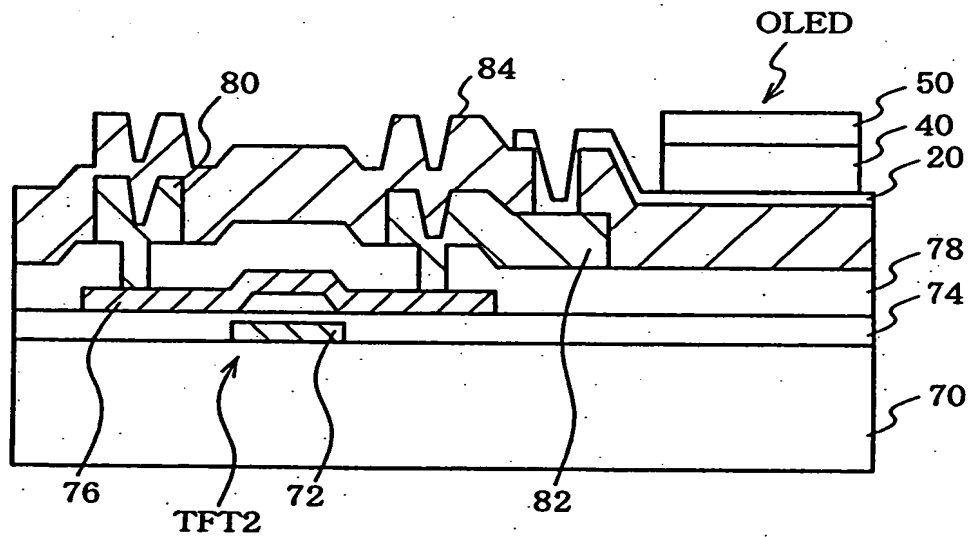


FIG. 5

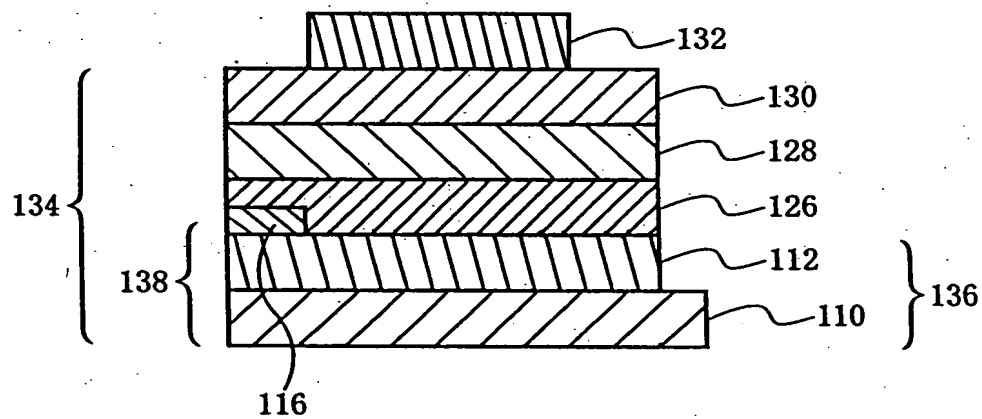
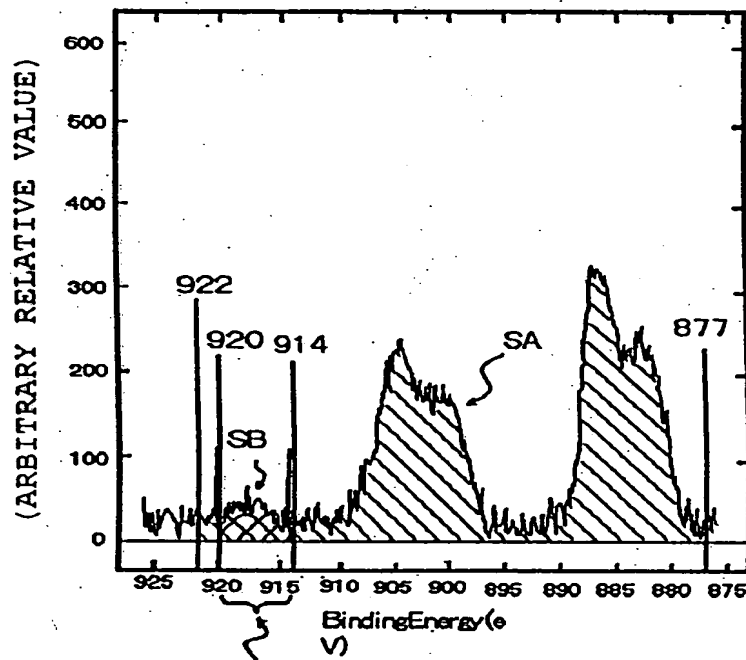


FIG. 6

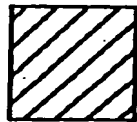
BINDING ENERGY SPECTRUM OF CERIUM 3d ORBIT



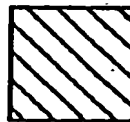
SPECTRUM ORIGINATED IN  $\text{Ce}^{4+}$  (SB)

SMALLER SB IS PREFERABLE

IN THIS GRAPH,  $\text{SB}/\text{SA} < 0.13$



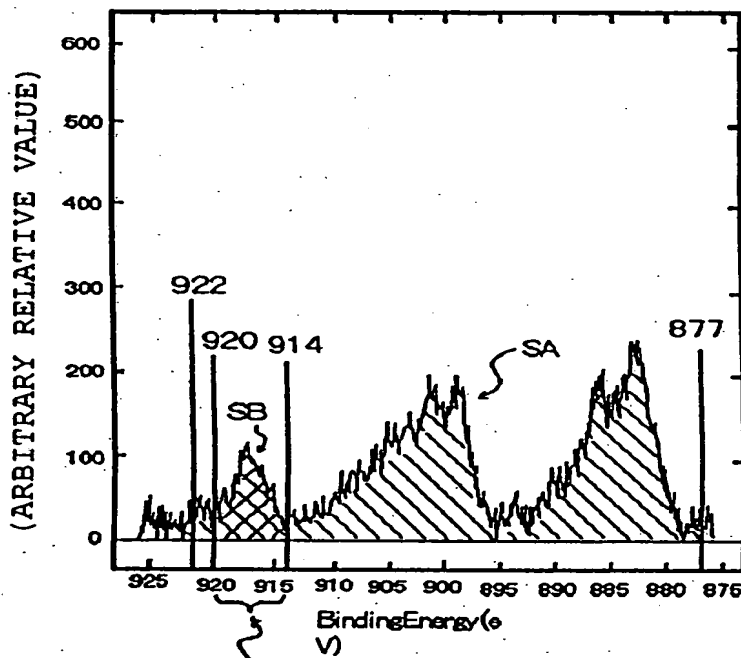
... SB



... SA

FIG. 7

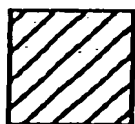
BINDING ENERGY SPECTRUM OF CERIUM 3d ORBIT



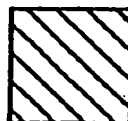
SPECTRUM ORIGINATED IN  $\text{Ce}^{4+}$  (SB)

SMALLER SB IS PREFERABLE

IN THIS GRAPH,  $\text{SB}/\text{SA} \geq 0.13$



... SB



... SA

FIG. 8

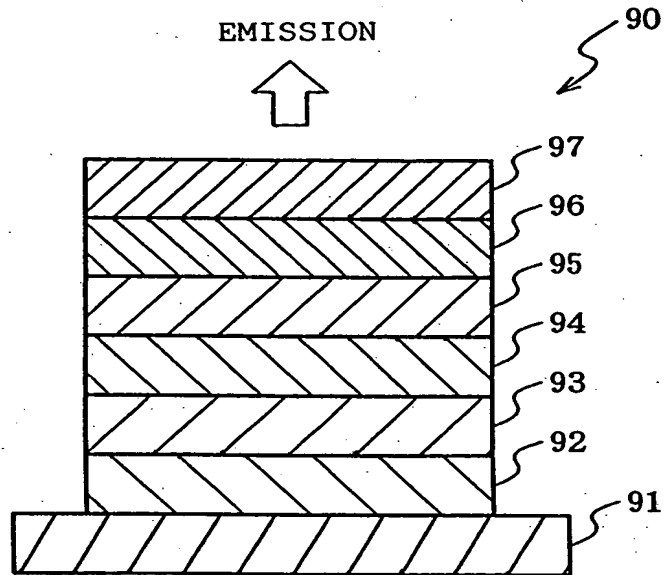


FIG. 9

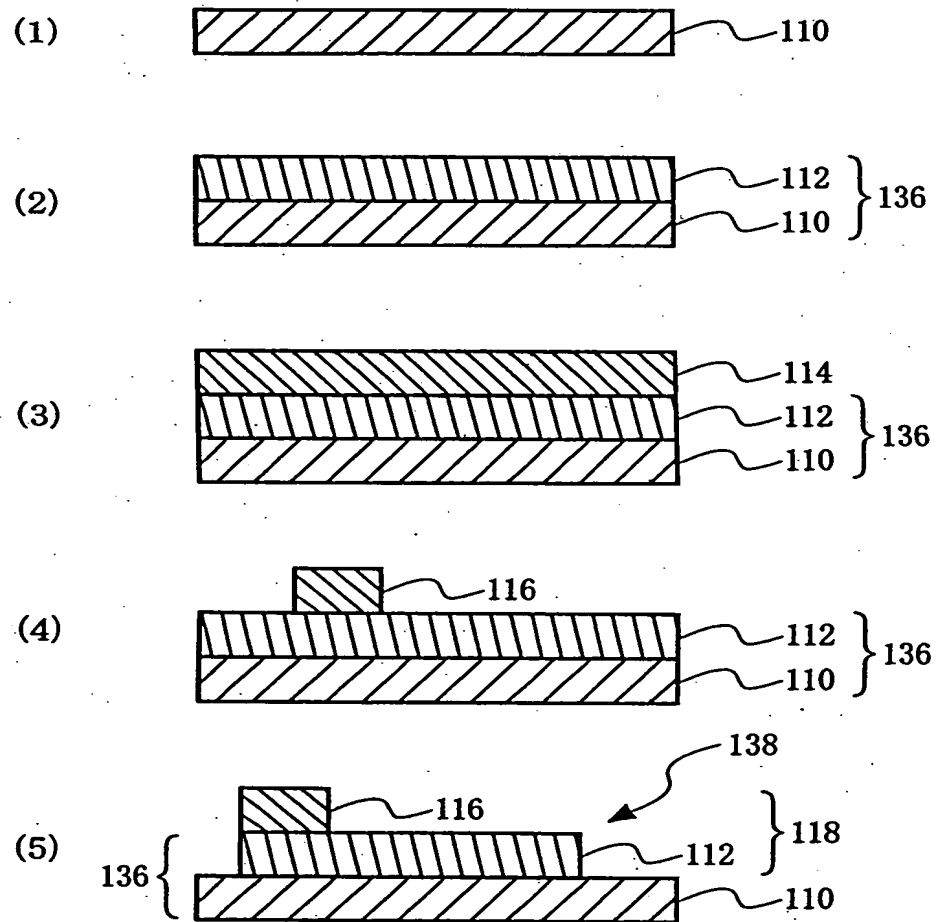
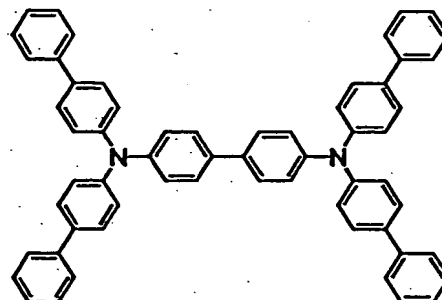
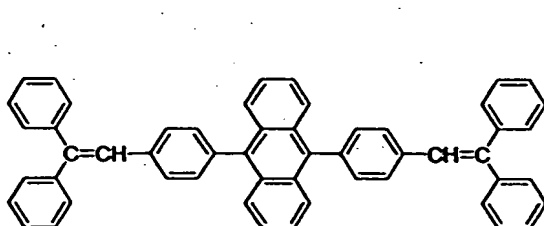


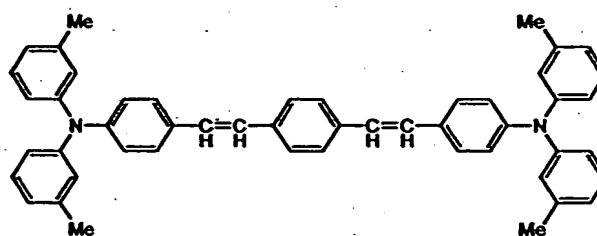
FIG. 10



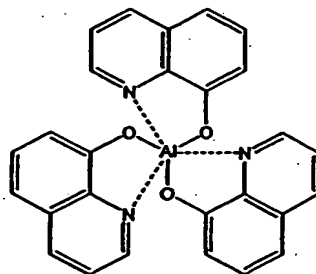
TBDB



DPVDPAN



D1



Alq